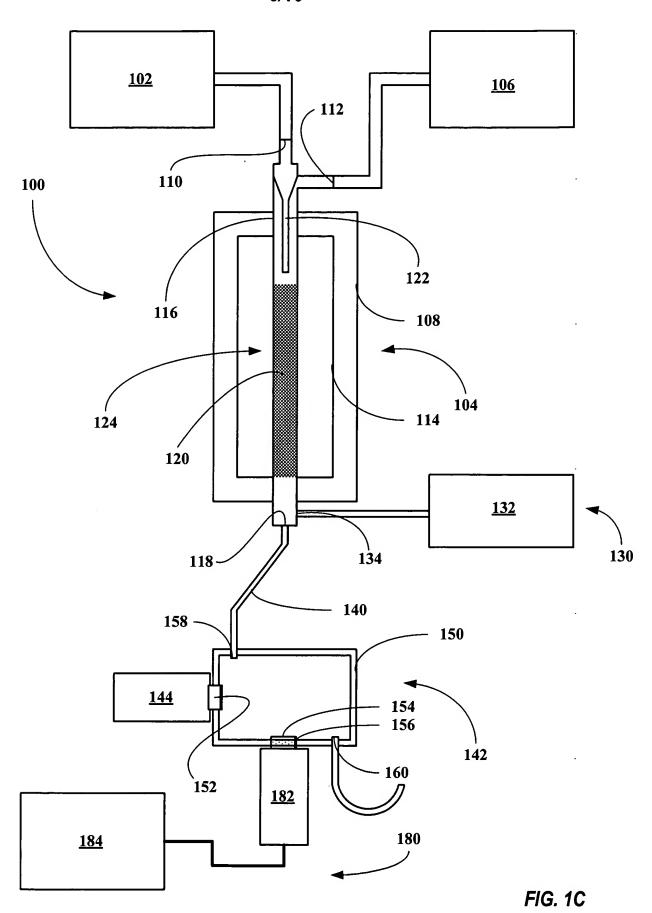
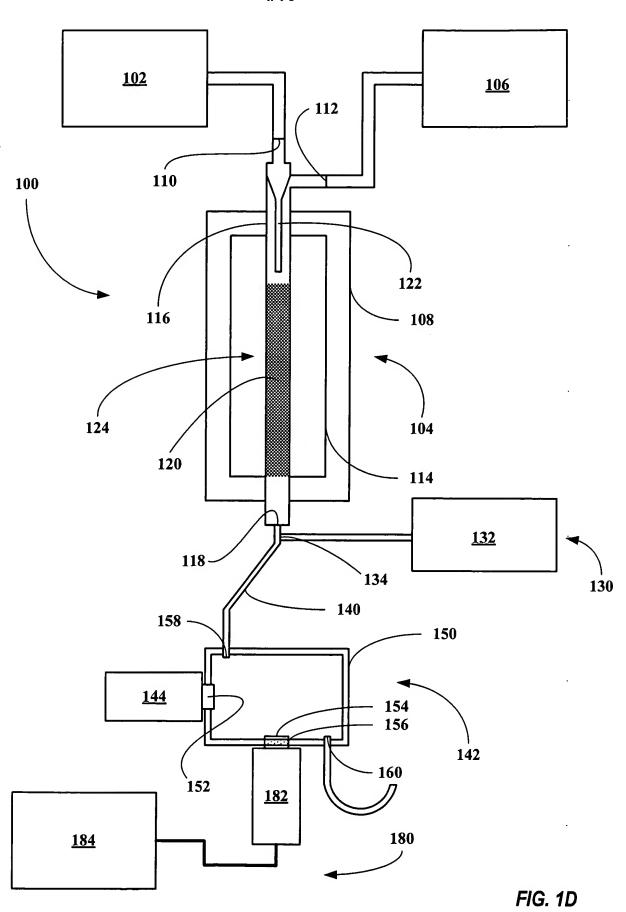


FIG. 1B





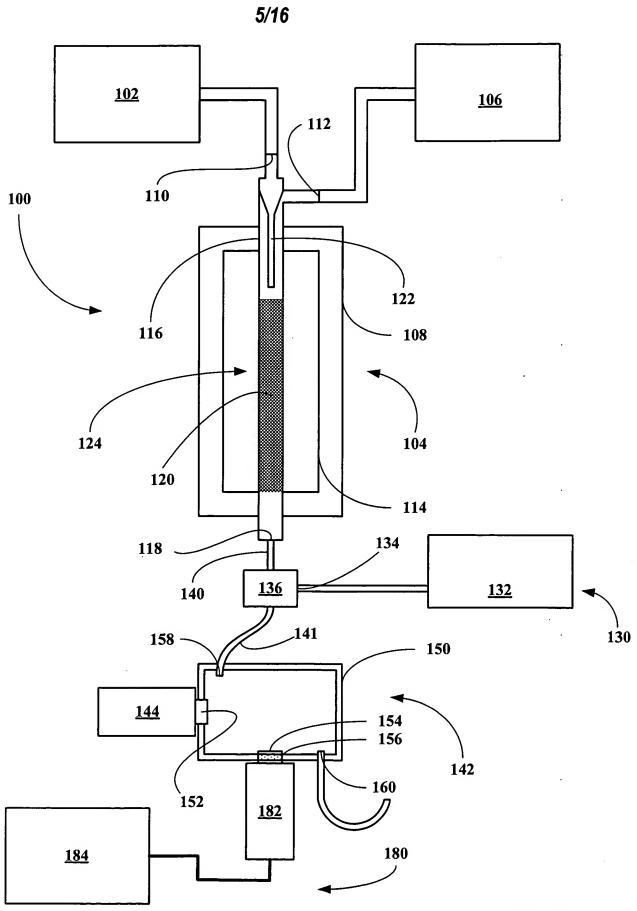


FIG. 1E



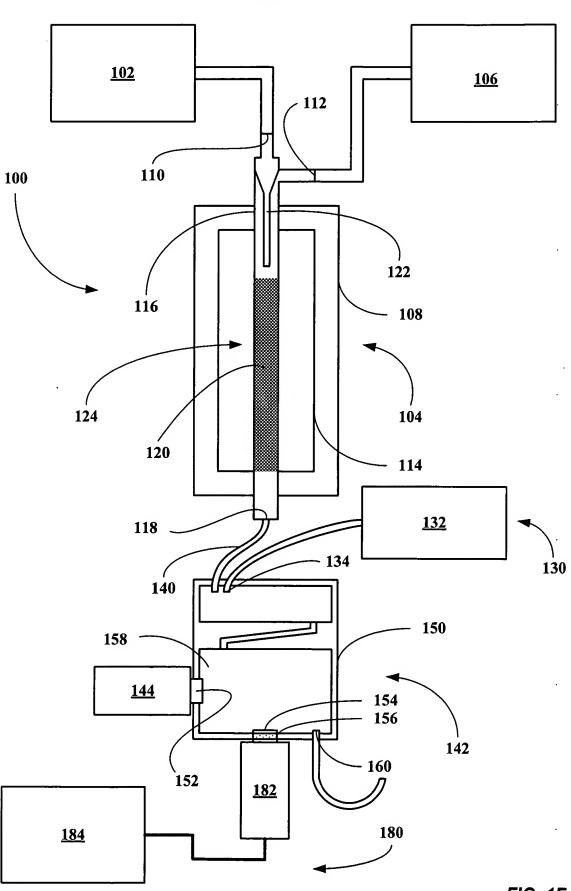
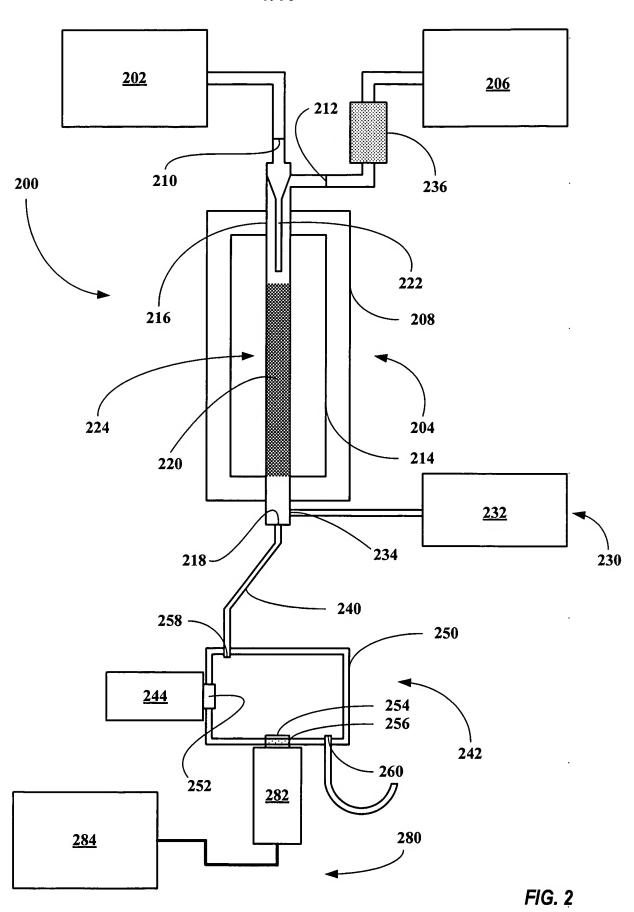


FIG. 1F



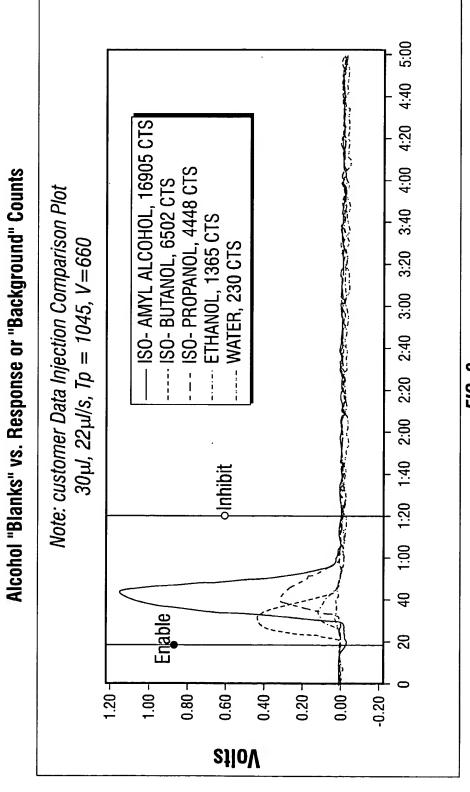


FIG. 3

Soctrade.sam As2551 cal As2551 cal File Name: Curr. Cal File: Orig. Cal File: Calibration based on:

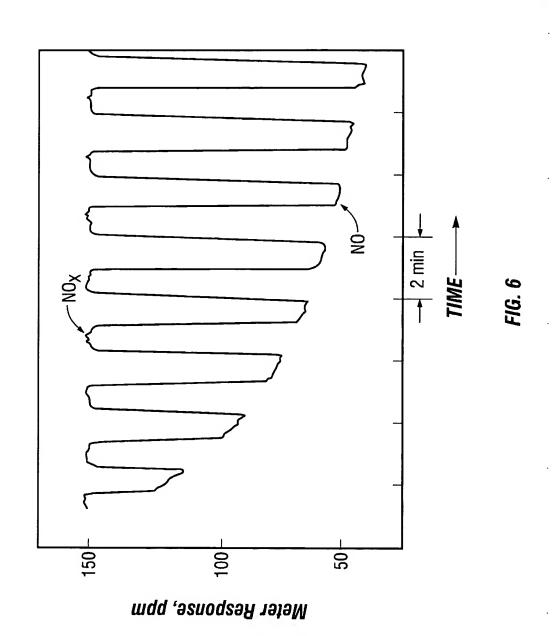
**Total Counts** 

Comments: Test UV Fluorescence Detector for Soctrade Version 3.7.7 6/28/02 Blank Correction is:

Name	Use S	SConc	SCnts	S%RSD	Divider	S%RSD   Divider   Multiplier   Time	Time	Date	Oldo	Tray #   Vial Pos	Vial Pos
1ppm/i-C8	×	0.629	23472.3	1.9						-	_
1ppm/i-C8.1	×	0.627	23690.0		1.00	1.00	2:13PM	2:13PM 3/11/03	NCJ		
1ppm/i-C8.2	×	0.645	24202.4		1.00	1.00	2:19PM	2:19PM 3/11/03	N		
1ppm/i-C8.3	×	0.618	23430.0		1.00	1.00	2:25PM	2:25PM 3/11/03	N N		
1ppm/i-C8.4	×	0.628	23729.2		1.00	1.00	2:31PM	2:31PM 3/11/03	NCJ		
1ppm/i-C8.5	×	0.626	23660.1		1.00	1.00	2:37PM	2:37PM 3/11/03	NCJ		
Blank/i-C8	×	-0.151	1465.7	15.40						_	_
Blank/i-C8.1	X	-0.148	1561.1		1.00	1.00	2:44PM	2:44PM 3/11/03	LJN		
Blank/i-C8.2	X	-0.150	1512.4		1.00	1.00	2:50PM	2:50PM 3/11/03	LJN		
Blank/i-C8.3	×	-0.141	1768.8		1.00	1.00	2:56PM	2:56PM 3/11/03	LJN		
Blank/i-C8.4	×	-0.160	1214.1		1.00	1.00	3:02PM	3:02PM 3/11/03	L'N		
Blank/i-C8.5	×	-0.158	1272.2		1.00	1.00	3:08pm	3:08pm   3/11/03	LJN		
500ppmN-DI	×	0.744	27020.0 N/A	N/A	1.00	1.00	3:16PM	3:16PM 3/11/03	LJN	+	1
i-C30H	×	-0.173	852.5	N/A	1.00	1.00	3:39PM	3:39PM 3/11/03	LJN	1	1
Toluene	×	-0.120	2359.6	N/A	1.00	1.00	4:15PM	4:15PM 3/11/03	LJN	_	1
MeOH	×	-0.190	350.5	N/A	1.00	1.00	4:48PM	4:48PM 3/11/03	LJN	-	-

40 1:00 1:20 1:40 2:00 2:20 2:40 3:00 3:20 3:40 4:00 4:20 4:40 5:00 5:20 5:40 6:00 Blank i-C<sub>8</sub> Samples vs. N2 Added to Injector Gas Flow Inhibit Injection Comparison Plot Enable w/.5 cc/min N<sub>2</sub> addition Std. "Blank" i C<sub>8</sub> (no added N<sub>2</sub>) w/10 cc/min N<sub>2</sub> addition w/1 cc/min N<sub>2</sub> addition 20 0.000 -1.200 -1.400 -1.000 -1.600 0.800 0.600 0.400 0.200 Volts

FIG. 5



Relative Response of "Blank" i-C $_8$  vs. 1ppm/wt.S in iC $_8$  w/ Present UV Fluorescence Configuration

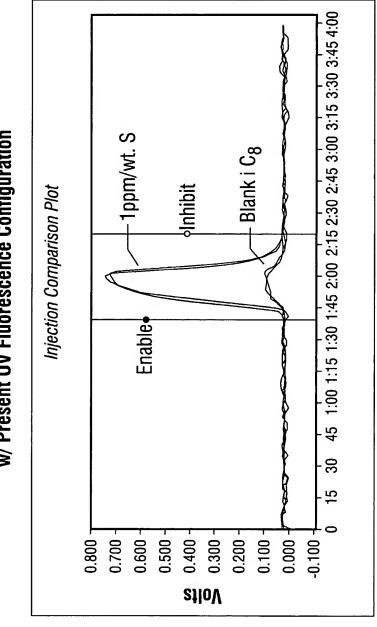


FIG. 7A

Relative Response of "Blank" i-C<sub>8</sub> vs. 1ppm/wt.S in iC<sub>8</sub> w/ Ozone Addition

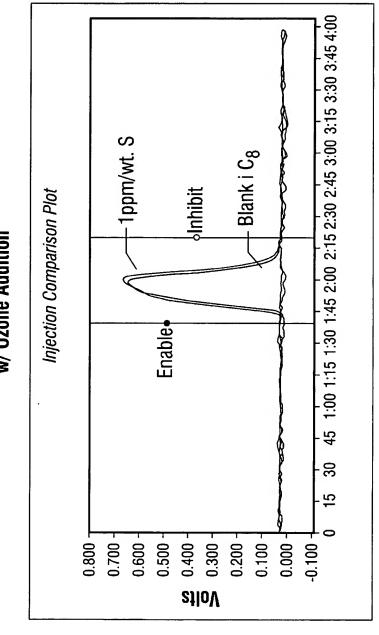


FIG. 7B

03 addition.sam File Name:

Interference.cal

Interference.cal Total Counts Calibration based on: Curr. Cal File: Orig. Cal File:

All Ozone (03) Addition = 1cc/min 02 with ATOMIC Prototype Blank Correction is: Comments:

(Hv Transformer Primary @7vdc) All 50ppbS standards in Fisher i-C8 3.7.7 6/28/02

Version:

Name	Use S	SConc	onc SCnts	SSDev	S%RSD	Divide	Divider   Multiplier	Time	Date
Reidel +03	×	NaN	16.6	15.77	95.12				
Reidel +03.1	×	Inf	37.6			1.00	1.00	11:08 PM	4/23/03
Reidel +03.2	×	Inf	12.2			1.00	1.00	11:12 PM	4/23/03
Reidel +03.3	×	Inf	28.1			1.00	1.00	11:16 PM	4/23/03
Reidel +03.4	×	-Inf	0.0			1.00	1.00	11:20 PM	4/23/03
Reidel +03.5	X	-Inf	4.2			1.00	1.00	11:24 PM	4/23/03
50ppb+03	×	Inf	355.9	81.09	22.79				
50ppb+03.1	×	Inf	429.9			1.00	1.00	11:29 PM	4/23/03
50ppb+03.2	×	Inf	442.9			1.00	1.00	11:33 PM	4/23/03
50ppb+03.3	×	Inf	287.1			1.00	1.00	11:37 PM	4/23/03
50ppb+03.4	×	Inf	263.5			1.00	1.00	11:41 PM	4/23/03
50ppb+03.5	×	Inf	355.9			1.00	1.00	11:45 PM	4/23/03
Reidel +03	×	NaN	5.6	5.49	97.56				
Reidel +03.1	×	-Inf	0.0			1.00	1.00	12:03 PM   4/23/03	4/23/03
Reidel +03.2	×	-Inf	6.4			1.00	1.00	12:07 PM	4/23/03
Reidel +03.3	×	-Inf	5.1			1.00	1.00	12:11 PM	4/23/03

Name	Use S	SConc	SCnts	SSDev	S%RSD	Divide	Divider Multiplier	Time	Date
Reidel +03.4	×	-Inf	2.2			1.00	1.00	12:15 PM	4/23/03
Reidel +03.5	X	-Inf	14.4			1.00	1.00	12:19 PM	4/23/03
Fisher+03	×	NaN	18.3	15.49	84.65				
Fisher + 03.1	×	luf	28.6			1.00	1.00	12:24 PM	4/23/03
Fisher+03.2	X	JUI-	4.3			1.00	1.00	12:28 PM	4/23/03
Fisher + 03.3	×	-Inf	0.0			1.00	1.00	12:32 PM	4/23/03
Fisher+03.4	×	lnf	35.6			1.00	1.00	12:36 PM	4/23/03
Fisher+03.5	×	Inf	23.0			1.00	1.00	12:40 PM	4/23/03
50ppb+03	×	Inf	352.9	46.42	13.16				
50ppb+03.1	×	Jul	313.8			1.00	1.00	12:45 PM	4/23/03
50ppb+03.2	×	Inf	317.1			1.00	1.00	12:49 PM	4/23/03
50ppb+03.3	×	Inf	337.3			1.00	1.00	12:53 PM	4/23/03
50ppb+03.4	×	Inf	370.6			1.00	1.00	12:57 PM	4/23/03
50ppb+03.5	×	Inf	425.4			1.00	1.00	1:01 PM	4/23/03
1ppm+03	×	Inf	9816.3	118.67	1.21				
1ppm+03.1	×	Inf	9657.6			1.00	1.00	1:21 PM	4/23/03
1ppm+03.2	X	Inf	9871.8			1.00	1.00	1:25 PM	4/23/03
1ppm+03.3	×	Inf	9761.8			1.00	1.00	1:29 PM	4/23/03
1ppm+03.4	×	Inf	9815.8			1.00	1.00	1:33 PM	4/23/03
1ppm+03.5	×	Inf	9974.7			1.00	1.00	1:37 PM	4/23/03
50ppb+03	×	lnf	332.7	71.52	21.50				
50ppb+03.1	×	Inf	245.3			1.00	1.00	1:43 PM	4/23/03
50ppb+03.2	×	Inf	363.7			1.00	1.00	1:47 PM	4/23/03
50ppb+03.3	×	Inf	270.8			1.00	1.00	1:51 PM	4/23/03
50ppb+03.4	×	Inf	414.5			1.00	1.00	1:55 PM	4/23/03
50ppb+03.5	×	Inf	369.2			1.00	1.00	1:59 PM	4/23/03

FIG. 8B

	г—	ı —	1	г—	_	_		Т.	т	Т	T	T		Г.	1		1 _	1
Date		4/23/03	4/23/03	4/23/03	4/23/03	4/23/03		4/23/03	4/23/03	4/23/03	4/23/03	4/23/03		4/23/03	4/23/03	4/23/03	4/23/03	4/23/03
Time		2:29 PM	2:33 PM	2:37 PM	2:41 PM	2:45 PM		2:57 PM	3:01 PM	3:05 PM	3:09 PM	3:13 PM		3:18 PM	3:22 PM	3:26 PM	3:30 PM	3:34 PM
Divider Multiplier		1.00						1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
Divider		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
		,													:			
S%RSD	5.07						10.54						0.73					
SSDev	48.85						127.80						83.00					
SCnts	963.5	960.1	919.6	917.3	1033.7	986.9	1212.0	1133.6	1378.7	1321.0	1107.7	1119.1	11311.0	112068	11363.2	11306.4	11260.6	11417.8
SConc	Inf	Inf	Inf	Inf	Inf	Inf	Inf	<b>I</b> II	Inf	ınf	Inf	Inf	Inf	Inf	laf	lu <b>f</b>	Inf	lut
Use S	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Name	F-Nozone	F-Nozone.1	F-Nozone.2	F-Nozone.3	F-Nozone.4	F-Nozone.5	50ppb Nozone	50ppb Nozone.1	50ppb Nozone.2	50ppb Nozone.3	50ppb Nozone.4	50ppb Nozone.5	1ppm- Nozone	1ppm- Nozone.1	1ppm- Nozone.2	1ppm- Nozone.3	1ppm- Nozone.4	1ppm- Nozone.5